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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/605,069	09/05/2003	Robert Freedman	20.2875	2068	
23718	7590 07/29/2004		EXAMINER		
	SERGER OILFIELD	SHRIVASTAV, BRIJ B			
200 GILLINGHAM LANE MD 200-9			ART UNIT	PAPER NUMBER	
SUGAR LA	SUGAR LAND, TX 77478			2859	
			DATE MAILED: 07/29/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

······································	Application No.	Applicant(s)				
	10/605,069	FREEDMAN, ROBERT				
Office Action Summary	Examiner	Art Unit				
	Brij B Shrivastav	2859				
The MAILING DATE of this communication ap	·					
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>05 S</u>	Responsive to communication(s) filed on <u>05 September 2003</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowa	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-18</u> is/are allowed.						
6)⊠ Claim(s) <u>19</u> is/are rejected.						
7) Claim(s) <u>20-24</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>05 September 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119		:				
12)☐ Acknowledgment is made of a claim for foreigr	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
 Certified copies of the priority documents have been received. 						
Certified copies of the priority document	s have been received in Application	on No				
3. Copies of the certified copies of the prior		ed in this National Stage				
application from the International Burea	, ,,					
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(c)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/5/03.	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 19 is rejected under 35 U.S.C. 102(b) as being anticipated by Lew et al (US 4,785,245).

As regards to claim 19, Lew et al teach a magnetic resonance apparatus, including a flow pipe (figure 2, numeral 20) with a polarization section and an investigation section, wherein the polarization section is upstream of the investigation section (figures 1 and 2, column 6 and 7; Also, in figure 2, the initial part of the magnet polarizes the fluid before it reaches the investigative section of the apparatus). Further, Lew et al teach an antenna disposed around the flow pipe at the investigation section for generating an oscillating magnetic field having a magnetic dipole substantially perpendicular to a magnetic dipole of the static magnetic field, and for receiving a nuclear magnetic resonance signal, and a circuitry for controlling generation of the oscillating magnetic field and reception of the nuclear magnetic resonance signal by the antenna (figures 2 and 3, numerals 50, 56-58 and 66-68).

Allowable Subject Matter

3. Claims 1-15 are allowable, as the prior art of record does not teach or suggest a method for determining a property of a flowing fluid by nuclear magnetic resonance,

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including steps of fitting the suit of nuclear magnetic resonance measurements to a forward model for responses of the flowing fluids to derive a parameter selected from a flow speed, longitudinal relaxation times of the flowing fluids, and a combination thereof, in combination with the remaining limitations of the claims.

- 4. Claims 16-18 are allowable, as the prior art of record does not teach or suggest a method for monitoring contamination in a flowing fluid being withdrawn into a formation fluid testing tool using nuclear magnetic resonance, including steps to a forward model for responses of the flowing fluids to derive a parameter selected from a flow speed, longitudinal relaxation times of the flowing fluids, and a combination thereof, in combination with the remaining limitations of the claims.
- 5, Claim 20-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brij B Shrivastav whose telephone number is 571-272-2250. The examiner can normally be reached on 7 AM to 4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego F. F. Gutierrez can be reached on 571-272-2245. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brij B Shrivastav

Examiner 7.13.65

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